

GABRIELE BALDI

Software Engineer

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Pisa, Italy. Willing to relocate in EU

/gabrielebaldi92

ABOUT ME

I'm a Software Engineer with a Master's degree in Mechatronic Engineering and 5 years of experience in software development.

STRENGTHS

Software development IoT Systems C# .NET WPF Python C \C++ Matlab\Simulink Linux
Shell Scripting Microsoft Azure Git Docker HTML CSS Javascript SQL OOP UML

EXPERIENCE

Software Engineer

Paolino Bacci srl

November 2023 -

Cascina, Pisa, Italy

- Designed and developed modular, multi-threaded applications using C# (WPF/Winforms), Python and C++ to control and monitor industrial machines.
- Integrated Microsoft Azure IoT Hub for real-time data monitoring and analytics, implementing device connectivity via X.509 certificates and managing remote commands through the device twin
- Implemented unit tests in a TDD framework (xUnit) for C# applications, ensuring software reliability and maintainability.

Software & Robotics Engineer

ESA Automation

July 2022 - May 2023

Vicopisano, Pisa, Italy

- Developed industrial robotics software using C# and Python, including 3D kinematics, vision systems' integrations, HMI, and communication protocols
- Programmed, calibrated, and set up ABB and KUKA robots, ensuring efficiency in diverse manufacturing tasks

Software & Robotics Engineer

Superiore Sant'Anna - Biorobotics Institute

February 2020 - May 2022

Pontedera, Pisa, Italy

- Developed the control software of more than a prototype for diagnostic automation using C++ on Arduino boards and PLC Structured Text (ST)
- Developed a prototypal network architecture to connect prototypes, collect and visualize data using MQTT, FastAPI and ThingsBoard.

OTHER PROJECTS

Software Engineer

Freelance project

September 2024 - February 2025

Pisa, Italy

- Development of web application using the Django Framework (Python) to connect industrial devices and enable real-time data monitoring, streamlining operations and enhancing process visibility.

LANGUAGES

Italian	<div><div></div><div></div><div></div><div></div><div></div></div>
English	<div><div></div><div></div><div></div><div></div><div></div></div>
Spanish	<div><div></div><div></div><div></div><div></div><div></div></div>

EDUCATION

M.Sc. in Mechatronic Engineering

Politecnico di Torino

 Jan 2017 – Dec 2019

 Turin, Italy

B.Sc. in Automation Engineering

Università degli Studi di Napoli Federico II

 Sep 2012 – Jan 2017

 Naples, Italy

Grado en Ingeniería Electrónica, Robótica y Mecatrónica - Erasmus Project

Escuela Tecnica Superior de Sevilla

 Sep 2014 – Jul 2015

 Sevilla, Spain

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Date: 12/02/2025

